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INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.131000A/EKS/EJH	TECH CENTER 1600/2900 10/005,842
	APPLICANT Ni et al.	
	FILING DATE December 7, 2001	GROUP To be assigned - 1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
an	AA1	4,002,531	01/11/1977	Royer	195	48	01/22/1976
	AB1	4,946,778	08/07/1990	Ladner et al.	435	69.6	01/19/1989
	AC1	5,349,053	09/20/1994	Landolfi	530	351	06/10/1993
	AD1	5,447,851	09/05/1995	Beutler et al.	435	69.7	04/02/1992
	AE1	5,478,925	12/26/1995	Wallach et al.	530	351	08/07/1992
	AF1	5,530,101	06/25/1996	Queen et al.	530	387.3	12/19/1990
	AG1	5,565,332	10/15/1996	Hoogenboom et al.	435	69.1	09/23/1994
	AH1	5,643,575	07/01/1997	Martinez et al.	424	194.1	10/27/1993
	AI1	5,763,223	06/09/1998	Wiley et al.	435	69.5	06/25/1996
	AJ1	5,807,715	09/15/1998	Morrison et al.	435	69.6	06/27/1994
an	AK1	6,072,047	06/06/2000	Rauch et al.	536	23.5	06/26/1997

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
an	AL1	EP 0 239 400 B1	09/30/1987	Europe			Yes No
	AM1	EP 0 401 384 B1	12/12/1990	Europe			Yes No
	AN1	WO 91/06570	05/16/1991	WIPO			Yes No
	AO1	WO 91/09967	07/11/1991	WIPO			Yes No
an	AP1	CA 2045869	12/29/1991	Canada			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

an	AR	1	Chaudhary, P.M., et al., "Death Receptor 5, a New Member of the TNFR Family, and DR4 Induce FADD-Dependent Apoptosis and Activate the NF- κ B Pathway," <i>Immunity</i> 7:821-830, Cell Press (December 1997).
	AS	1	Chinnaiyan, A.M., et al., "Signal Transduction by DR3, a Death Domain-Containing Receptor Related to TNFR-1 and CD95," <i>Science</i> 274:990-992, American Association for the Advancement of Science (November 1996).
an	AT	1	Delgado, C., et al., "The Uses and Properties of PEG-Linked Proteins," <i>Crit. Rev. Ther. Drug Carrier Sys.</i> 9:249-304, CRC Press, Inc. (1992).

EXAMINER <i>Chin N. K.</i>	DATE CONSIDERED 12/14/03
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



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10/005,842APPLICANT
Ni et al.FILING DATE
December 7, 2001GROUP
To be assigned 1646

U.S. PATENT DOCUMENTS

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	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
cu	AL2	EP 0 510 691 A1	10/28/1992	Europe			Yes
							No
	AM2	WO 94/01548	01/20/1994	WIPO			Yes
							No
	AN2	WO 95/06058	03/02/1995	WIPO			Yes
							No
	AO2	WO 98/32856	07/30/1998	WIPO			Yes
							No
cu	AP2	WO 98/35986	08/20/1998	WIPO			Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

cu	AR	2	Huston, J.S., et al., "Protein Engineering of Single-Chain Fv Analogs and Fusion Proteins," <i>Meth. Enzymol.</i> 203:46-88, Academic Press, Inc. (1991).
	AS	2	Marsters, S.A., et al., "A novel receptor for APO2L/TRAIL contains a truncated death domain," <i>Curr. Biol.</i> 7:1003-1006, Current Biology Ltd. (December 1997).
cu	AT	2	Morpurgo, M., et al., "Covalent Modification of Mushroom Tyrosinase with Different Amphiphic Polymers for Pharmaceutical and Biocatalysis Applications," <i>Appl. Biochem. Biotechnol.</i> 56:59-72, Humana Press Inc. (January 1996).

EXAMINER

Chen H. K.

DATE CONSIDERED

12/18/03

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CU	AL3	EP 0 870 827 A2	10/14/1998	Europe			Yes
							No
CU	AM3	WO 99/02653	01/21/1999	WIPO			Yes
							No
	AN						Yes
							No
	AO						Yes
							No
	AP						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CU	AR	3	Morrison, S.L., "Transfectomas Provide Novel Chimeric Antibodies," <i>Science</i> 229:1202-1207, American Association for the Advancement of Science (1985).
	AS	3	Pan, G., et al., "The Receptor for the Cytotoxic Ligand TRAIL," <i>Science</i> 276:111-113, American Association for the Advancement of Science (April 1997).
CU	AT	3	Pan, G., et al., "An Antagonist Decoy Receptor and a Death Domain-Containing Receptor for TRAIL," <i>Science</i> 277:815-818, American Association for the Advancement of Science (August 1997).

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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1488.131000A/EKS/EJHTECH CENTER 1600/2900
APR 10/005,842APPLICANT
Ni et al.FILING DATE
December 7, 2001GROUP
To be assigned 1646

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

cc	AR	4	Rieger, J., et al., "APO2 ligand: a novel lethal weapon against malignant glioma?" <i>FEBS Lett.</i> 427:124-128, Federation of European Biochemical Societies (May 1998).
↓	AS	4	Roguska, M.A., et al., "Humanization of murine monoclonal antibodies through variable domain resurfacing," <i>Proc. Natl. Acad. Sci. USA</i> 91:969-973, National Academy of Sciences (1994).
cc	AT	4	Schneider, P., et al., "TRAIL Receptors 1 (DR4) and 2 (DR5) Signal FADD-Dependent Apoptosis and Activate NF- κ B," <i>Immunity</i> 7:831-836, Cell Press (December 1997).

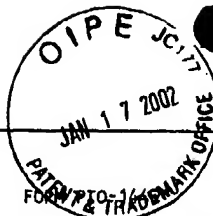
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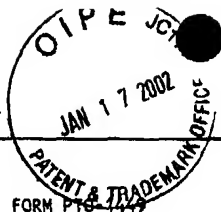
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Sheikh, S.M., et al., "p53-dependent and -independent Regulation of the Death Receptor KILLER/DR5 Gene Expression in Response to Genotoxic Stress and Tumor Necrosis Factor α ," <i>Cancer Res.</i> 58:1593-1598, American Association for Cancer Research (April 1998).
AS	2	Sheridan, J.P., et al., "Control of TRAIL-Induced Apoptosis by a Family of Signaling and Decoy Receptors," <i>Science</i> 277:818-821, American Association for the Advancement of Science (August 1997).
AT	2	Uhlén, M., et al., "Fusion proteins in biotechnology and structural biology," <i>Curr. Opin. Biotechnol.</i> 3:363-369, Current Biology Ltd. (1992).

EXAMINER <i>Chen M K</i>	DATE CONSIDERED 12/18/03
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1488.131000A/EKS/EJH

APPLICATION NO.
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APPLICANT
Ni et al.

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Am</i>	AR	<u>6</u>	Wiley, S.R., et al., Identification and Characterization of a New Member of the TNF Family that Induces Apoptosis," <i>Immunity</i> 3:673-682, Cell Press (1995).
<i>Am</i>	AS	<u>6</u>	Zamai, L., et al., "Natural killer (NK) Cell-mediated Cytotoxicity: Differential Use of TRAIL and Fas Ligand by Immature and Mature Primary Human NK Cells," <i>J. Exp. Med.</i> 188:2375-2380, Rockefeller University Press (December 1998).
<i>Am</i>	AT	<u>6</u>	NCBI Entrez, Genbank Report, Accession No. Z66083, from MacDonald, M., et al. (October 1995).

EXAMINER *Chen M. 16/1*

DATE CONSIDERED
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FORM PTO-1449		ATTY. DOCKET NO. 1488.131000A/EKS/EJH		APPLICATION NO. 10/005,842			
<u>INFORMATION DISCLOSURE STATEMENT</u>		APPLICANT Ni et al.		GROUP To be assigned - 1646			
		FILING DATE December 7, 2001					
U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
Cw ↓ Cw	AR	Z	NCBI Entrez, Genbank Report, Accession No. AA223122, from Hillier, L., et al. (February 1997).				
	AS	Z	NCBI Entrez, Genbank Report, Accession No. AA232440, from Hillier, L., et al. (February 1997).				
	AT	Z	Pending Non-Provisional United States Patent Application No.09/042,583, Ni et al., filed March 17, 1998.				
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APPLICANT

Ni et al.

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Cu</i>	AR	8	Pending Non-Provisional United States Patent Application No. 09/565,009, Ni et al., filed May 4, 2000.
<i>Cu</i>	AS	8	Pending Non-Provisional U.S. Patent Application No. 09/912,293, filed July 26, 2001, NOT PUBLISHED: pages 1-75 (pages 1 + 2 partially redacted); portion of Table 2; and SEQ ID NOS.: 7851 and 190763.
	AT		

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Clare M. Kelly

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12/18/03

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FORM PTO-1449 <u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1488.131000A/EKS/EJH	APPLICATION NO. 10/005,842
	APPLICANT Ni et al.	
	FILING DATE December 7, 2001	GROUP 1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>cu</i>	AA2	6,313,269 B1	11/06/2001	Deen et al.	530	350	06/15/1999
<i>cu</i>	AB2	6,342,369 B1	01/29/2002	Ashkenazi	435	69.1	05/14/1998
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FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER <i>Chen M. H.</i>	DATE CONSIDERED <i>12/18/03</i>
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FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1488.131000A/EKS/EJHAPPLICATION NO.
10/005,842APPLICANT
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1646

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	AL						Yes No
	AM						Yes No
Can	AN3	WO 98/46643 A1	10/22/1998	WIPO			Yes No
	AO3	WO 98/51793 A1	11/19/1998	WIPO			Yes No
Can	AP3	WO 99/00423 A1	01/07/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
Can	AT	8	Beutler, B., and Cerami, A., "Tumor Necrosis, Cachexia, Shock, and Inflammation: A Common Mediator," Ann. Rev. Biochem. 57:505-518, Annual Reviews Inc. (1988)

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Chen M K

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Am	AR	2	Fiers, W., "Tumor necrosis factor. Characterization at the molecular, cellular and in vivo level," <i>FEBS Lett.</i> 285:199-212, Elsevier Science B.V. (1991)
	AS	2	Goeddel, D.V., et al., "Tumor Necrosis Factors: Gene Structure and Biological Activities," <i>Cold Spring Harb. Symp. Quant. Biol.</i> 51(Pt. 1):597-609, Cold Spring Harbor Laboratory Press (1986)
Am	AT	2	Golstein, P., "Cell death: TRAIL and its receptors," <i>Curr. Biol.</i> 7:R750-R753, Current Biology Ltd. (December 1997)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

an	AR	10	Gruss, H.-J., and Dower, S.K., "Tumor Necrosis Factor Ligand Superfamily: Involvement in the Pathology of Malignant Lymphomas," Blood 85:3378-3404, The American Society of Hematology (1995)
↓	AS	10	Locksley, R.M., et al., "The TNF and TNF Receptor Superfamilies: Integrating Mammalian Biology," Cell 104:487-501, Cell Press (February 2001)
an	AT	10	Nagata, S., "Apoptosis by Death Factor," Cell 88:355-365, Cell Press (February 1997)

EXAMINER

Chen H Ky

DATE CONSIDERED

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.07(a) through (c); otherwise, include copy of this form with next communication to Applicant.

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Cw	AR	11	Old, L.J., "Tumor Necrosis Factor," <i>Scientific American</i> , pp. 59-75, Scientific American, Inc. (May 1988)
Ch	AS	11	Wallach, D., "TNF Ligand and TNF/NGF Receptor Families," in <i>Cytokine Reference. A compendium of cytokines and other mediators of host defense</i> , Oppenheim, J.J., et al., eds., Academic Press, Inc., San Diego, CA, pp. 377-411 (August 2000)
	AT		

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Chen M. G.

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FORM PTO-1449

THIRD SUPPLEMENTAL
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NI *et al.*FILING DATE
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Cu	AR	14	Copy of provisional U.S. application 60/054,021, inventor Ni <i>et al.</i> , filed July 29, 1997
↓	AS	14	Copy of U.S. application 08/857,216, inventor Ashkenazi, filed May 15, 1997
Can	AT	14	Do NOT Print Statement of Grounds and Particulars filed in the opposition to Human Genome Sciences, Inc., Australian Patent Application 747635 (67635/98) by Genentech, Inc.

EXAMINER

Ch M. Kaufman

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FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1488.131000A/EKS/EJH/SJEAPPLICATION NO.
10/005,842APPLICANT
NI *et al.*FILING DATE
December 7, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>CM</i>	AA 2	6,569,642 B1	05/27/ 2003	Rauch <i>et al.</i>	435	69.1	03/27/2000
	AB						
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	AJ						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
<i>CM</i>	AT	11	Brojatsch, J., <i>et al.</i> , "CAR1, a TNFR-Related Protein, Is a Cellular Receptor for Cytopathic Avian Leukosis-Sarcoma Viruses and Mediates Apoptosis," <i>Cell</i> 87:845-855, Cell Press (November 1996)

EXAMINER

Chen H L

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	AP						Yes No

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Cur	AR	12	Chapman, B.S., "A region of the 75 kDa neurotrophin receptor homologous to the death domains of TNFR-I and Fas," <i>FEBS Lett.</i> 374:216-220, Elsevier (1995)
↓	AS	12	Rabizadeh, S., <i>et al.</i> , "Induction of Apoptosis by the Low-Affinity NGF Receptor," <i>Science</i> 261:345-348, American Association for the Advancement of Science (1993)
Cur	AT	12	Tartaglia, L.A., <i>et al.</i> , "A Novel Domain within the 55 kd TNF Receptor Signals Cell Death," <i>Cell</i> 74:845-853, Cell Press (1993)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Cur ↓ Cur	AR	13	Do Not Print Statutory Declaration of Avi J. Ashkenazi, signed March 14, 200356
	AS	13	Do Not Print Curriculum vitae of Avi Ashkenazi
	AT	13	Copy of provisional U.S. application 60/040,848, inventor Ni <i>et al.</i> , filed March 17, 1997

EXAMINER

Chen M. K.

DATE CONSIDERED

12/18/03

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